

5 April 1999

Maintenance



**INSPECTION AND REPACKING AIRCRAFT
DROGUE CHUTES EXTRACTION CHUTES
AND RECOVERY PARACHUTES, AND LUP-9/P
LIFE PRESERVERS**

COMPLIANCE WITH THIS PUBLICATION IS MANDATORY

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This instruction implements AFRPD 21-1, *Managing Aerospace Equipment Maintenance*. It provides essential guidance and procedures for safely and effectively maintaining, servicing, and repairing aircraft and support equipment at the base level. This 442d Fighter Wing Instruction 21-106 establishes standardized procedures and assigns responsibilities for the inspection and repacking of aircraft drogue, extraction and recovery parachutes and LPU-9/P life preservers. These procedures apply to all personnel assigned to the 442 Logistics Group and 303 Fighter Squadron Maintenance. Supervisors, superintendents and flight chiefs are responsible for ensuring compliance with this instruction.

SUMMARY OF REVISIONS

This document is substantially revised and must be completely reviewed. This revision changes the publication number; designates applicable policy directive. A (I) indicates revisions from the previous edition.

| 1. Responsibilities:

1.1. The 442d Maintenance Squadron Superintendent, Fabrication Flight Chief and Survival Equipment Shop Supervisor are responsible for ensuring compliance with this instruction. Supervisors will ensure that all personnel are familiar with the dangers and safety precautions necessary for a safe efficient process.

| 2. Explosive limits:

2.1. No more than four Class C explosive reefing line cutters, four parachute releases and eight life preserver actuators can be in the Survival Equipment Shop at any one time.

| 3. Personnel Limits:

3.1. For all subject process's, a minimum of two 2A7X4 personnel are required. During such process's, a maximum of four casualties may be in the area provided they remain clear of the packing process.

| 4. Location of Operations:

4.1. Building 1117, Rooms 123 (Egress Shop), 119 and 119B, (Survival Equipment Shop).

| 5. Equipment Requirements:

5.1. Fire extinguisher: A minimum of two, 20 pounds, type ABC fire extinguishers, suitable for the hazards involved.

5.2. Fire symbols and hazard symbols as applicable.

5.3. Personnel protective equipment: Chemical resistant gloves & eye protection as applicable by certain tasks of the inspection/packing cycle.

5.4. Explosive Process in Progress Signs: One each posted at each entryway.

| 6. Safety Requirements:

6.1. A qualified 2A774 will be in charge of each process and will exercise control to ensure the packing process is completed in a safe and reliable manner. When an abnormal or adverse condition exists, the packing process will be terminated until the situation has been resolved.

6.2. The process supervisor will brief personnel on tasks to be performed and assign individual job/tasks.

6.3. The process supervisor will brief personnel on procedures to be employed in case of an emergency and assign emergency tasks. The explosive safety-briefing sheet will be filled out and used for this briefing as applicable.

6.4. All munitions will be handled with extreme care at all times. Munitions will not be thrown, rolled, walked on or dropped.

6.5. Discontinue all process's involving explosives when thunderstorms are in the immediate vicinity of area (ten miles) or at the discretion of the supervisor in charge of the packing process.

6.6. Smoking is permitted only in designated areas around Building 1117.

6.7. The process supervisor will post the proper fire symbols and hazard symbols as applicable and immediately notify Maintenance Operations Center (MOC), ext. 1250.

6.8. Ensure emergency exits, fire extinguisher, and fire alarms are not obstructed.

| 7. Emergency Procedures:

7.1. "In case of fire or accident" procedures are as outlined in the Explosive Safety Briefing Guide. The Fire Department will be notified first on all fires. This can be done by radio through Maintenance Operations Center (MOC), by dialing 911 on any available telephone or by pulling the fire alarms.

7.2. Dispatch one individual to the northwest corner of building 1117 to direct the Fire Department to the location of the fire, and to provide advice and/or assistance to the senior fire official.

7.3. If the Survival Equipment Shop must be evacuated for any reason, all personnel will assemble at north side of Building 46, (Aircraft Life Support Shop). An accountability check of all personnel will be performed at this location.

7.4. In case of any emergency in the Survival Equipment Shop, Maintenance Operations Center (MOC) will be notified. In turn, they will notify the appropriate personnel by using the emergency action check sheet.

| 8. Procedures:

8.1. Prior to beginning any packing process, the process supervisor will ensure the following procedures are followed:

8.2. Ensure all exits are unlocked.

8.3. Check all fire extinguishers for serviceability

8.4. Assemble and brief personnel on the process to be conducted, responsibilities of each member and the emergency procedures briefing as outlined in the briefing guide. All warning, cautions and notes for the process to be conducted will be briefed directly from the Technical Orders that are applicable to the process.

8.5. Post fire symbols and hazards symbols.

8.6. Post the process to be conducted, the explosive limits for that process and the personnel limits on the wall of the process location. The Cardinal Principle of Explosive Safety applies:

8.6.1. Expose the minimum number of people to the minimum amount of explosives for the minimum amount of time consistent with the process being conducted.

8.7. Notify the Maintenance Operations Center (MOC) when starting an explosive process and when stopping the explosive process.

8.8. The process location should be maintained in as clean an environment as possible throughout the process.

| 9. Closing Procedures:

9.1. Upon completion of the explosive process, or end of the day, the process supervisor will ensure following procedures are followed:

9.2. Ensure the proper fire symbols and hazard symbols are posted in the operating location.

9.3. Ensure all trash generated from the process is removed from the shop and put in the proper receptacles.

9.4. All tools and equipment are returned to their proper places. Keys to tool and equipment bins are secured.

9.5. Turn off power and secure all exits.

MICHAEL K. LYNCH, Col, USAFR
Commander

Attachment 1**GLOSSARY OF REFERENCES AND SUPPORTING INFORMATION*****References***

AFMAN 91-201--*Explosive Safety Standards*

AFOSH 91-31--*Personal Protective Equipment*

AFOSH 91-66--*General Industrial Operations*

AFRC 21-101--*Aircraft Maintenance Guidance and Procedures*

T.O. 00-25-241--*Parachute Logs and Records*

T.O. 11P10-6-7--*Universal Water Activated Release System (UWARS)*

TO. 11P12-15-7--*Cutter Reefing Line*

T.O. 14D1-3-316--*Drogue Parachute Assembly*

T.O. 14D3-10-1--*Ejection Seat Aircrew Recovery Parachute*

T.O. 145-1-102--*USAF Floatation Equipment*